

FILING DATE

02/02/2001

02/14/2005

7590

Orchid Sstems, Inc. 103 Old Colony Road

Wellesley, MA 02181

APPLICATION NO.

09/776,255

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

ST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
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	ART UNIT	PAPER NUMBER	

3623 DATE MAILED: 02/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

FIRST NAMED INVEN



Ms. Susanna Meinecke Diaz
United States Department of CommerceUnited States Patent and Trademark Office
Commissioner of Patents
PO Box 1450
Alexandria, VA 22313-1450

March 10, 2005

Dear Ms. Diaz:

Attached is a response to a Requirement for Information that was dated 2/15/2005 regarding Application/Control Number 09/776,255 (Art Unit 3623).

The questions asked in the communication regarded the details of how data stream transformation projects were typically evaluated before the invention. Specifically:

- 1) How were data stream transformation projects planned and carried out?
- 2) How was the qualification of a prospect's project previously performed (regardless of what type of project it was)?

Also, the details of the underlying methodology employed to assess customer's wireless solution needs for integration. Specifically:

3) Explain how this prior methodology compared to the claimed steps.

In response to question #1 above – data stream transformation projects were planned and carried out through a series of discussions with increasingly technical personnel resources of both the Vendor and the Prospect. The discussions were either onsite with the prospect or over the telephone. The tangible result from these discussions included:

- designs of increasing detail (conceptual, functional and detail), and
- a price quotation from the Vendor.

If no purchase order is issued by the Prospect in a reasonable time frame, the Prospect and its Data Stream Transformation Project Project were not qualified and significant Vendor resources were wasted. If the Prospect issues a purchase order either to this Vendor or to a competing Vendor, the Prospect and Project were qualified. If this Vendor receives the Purchase Order, its programmer/s would schedule and deliver the transformation as specified in the detail design.

Exhibit 1 attached communicates how projects were planned and describes the personnel who carried it out. Exhibit 1 contains two documents, the first titled SIMPLIFIED EXAMPLE OF OLD AND WELL KNOWN APPROACH TO QUALIFY

rwanthony@comcast.net (781) 431-1059

DATA STREAM TRANSFORMATION PROJECT (pages 1 and 2) plus a sample TELESHAPER CUSTOMER QUESTIONAIRE.

As illustrated by the simplified example In Exhibit 1, the *conceptual design* could be as simple as a Prospect warehouse manager pointing to a variable data field on his office computer terminal and saying to a Vendor sales person that he wants that field to be presented and edited in real time through his cell phone display or through a wireless palm top device.

Also as illustrated in Exhibit 1, the *functional design* might be as simple as the Vendor sales support technician, interviewing a Prospect material handler and related supervisor to document the Prospect software application name, its transaction type targeted, the computer operating system, the network protocol, the distances involved and a description of the purpose of the wireless device. Most often, several additional Prospect personnel had to be interviewed to gather answers to these questions. The second document in Exhibit 1, titled TELESHAPER CUSTOMER QUESTIONAIRE, reflects the questions asked in person or faxed and emailed to the appropriate Prospect personnel.

As partially illustrated in Exhibit 1, in the *detail design* a Vendor programmer went onsite to configure requisite components. The Vendor programmer would complete the project onsite or configure communications to continue the work or provide technical support offsite via modem. A key improvement in the patent application is starting with a remote communications connection in order to develop the design phases and perform the qualifications before expending Vendor technical resources onsite. At the same time, this means that details are captured in digital format whereas past projects were often designed from screen prints; the impact is similar to modifying a document that arrives digitally via email allowing cut & paste edits as opposed to hard copy arriving via the post office where you must start with a blank document or else scribble edits with a pencil.

In response to questions 2 and 3 above - qualification steps were performed by three different categories of Vendor personnel throughout the three design phases (conceptual, functional and detail). For example, the Vendor salesperson might disqualify a project during the conceptual design phase when 'inquiring about alternative approaches' (Step 270) and learning that the desired transformation is available to the Prospect for free when they upgrade their application software and that this upgrade is the most likely Prospect decision. Another example is when a Vendor programmer might disqualify a project during the detail design phase by 'determining client device targeted by the transformation' (Step 230) is not feasible by the Vendor. In this scenario, the Prospect may desire devices using satellite communications with cruise

ships that are not supported by the Vendor for technical reasons or international political restrictions.

In fuller response to all three questions, Exhibit 2 and Exhibit 3 are attached representing normal - as opposed to simplified - detail design examples for wireless device integration. The example in Exhibit 2 was prepared by a Vendor while the example in Exhibit 3 was prepared by a Prospect.

Exhibit 2, prepared by Vendor personnel, is titled PROJECT REQUIREMENTS DOCUMENT. It was developed through onsite visits, telephone discussions, faxes of existing application 'big screen' printouts with written comments and iterations of the design document itself following edits by the Prospect. It reflects how planning was performed, including space for Prospect approval initials on the lower right of 'little screen' portable device layouts illustrated on pages 4-11.

In preparation for answering the requisite questions before quoting any custom project, the Vendor salesperson would go onsite and write lengthy notes while 'determining the Prospect's business initiative' (Step 210) by viewing the prospect's existing computer application and hearing the description of the desired transformation. (Rather than the Vendor salesperson going onsite and writing notes, the invention connects the Vendor technicians to the Prospect's existing application to exercise the application directly, copying any desired detail in digital format.)

'Determining the payback' (Step 220) compares expected gains against probable costs. For example, an inexpensive business initiative that improves productivity for two employees in the mailroom may not justify a transformation investment while an expensive business initiative that improves productivity for a thousand employees may be an easy investment to justify. Without the invention, the Vendor salesperson asks the productivity questions of the Prospect and then asks for cost guesses from Vendor technicians who may request more detail than the Vendor salesperson can provide. Instead, the Vendor technician uses the invention to detail the Prospect's business initiative directly in Step 210 combined with the 'ballpark' costs perceived by the Vendor technician while exercising the existing Prospect application in order to achieve Step 220.

'Determining client device targeted by the transformation' (Step 230) also may be achieved by the Vendor technician using the information gained in Step 210. This allows disqualifying a Prospect early in the cycle if the Prospect initiative includes interaction with an unusually long variable data field, requiring a device with a screen size that is not available through the Vendor. Or if a certain function, such as being waterproof, is desired by the Prospect that is problematic for the Vendor, the Prospect may be disqualified before the Vendor salesperson spends any more time on the

project. Without the invention, a mismatch between the Prospect need and the Vendor's access to a suitable client device might not become apparent until the Prospect business initiative had gone into the detail design stage by the Vendor programmer, several days into the documentation effort.

'Inquiring about existing host systems' (Step 240) is also achieved when performing Step 210, where the Vendor technician connects and exercises the Prospect's computer application. The traditional alternative occurred late in the cycle, after the Vendor technician is onsite.

'Searching for similar prior transformations' (Step 250) was traditionally performed late in the cycle when a Prospect requested references.

In the old approach, 'inquiring about deployment timing' (Step 260) or measuring urgency was most accurately answered by the delay before purchase was authorized by the Prospect. The new approach defines urgency by the delay before a connection is authorized by the Prospect – no Vendor technical time is expended if the connection is not authorized in a timely fashion.

'Inquiring about alternative approaches' (Step 270) was also traditionally answered most accurately by the Prospect decision whether to purchase the Vendor proposal.

Exhibit 3 is a detail design presented in an alternative format, as prepared by a Prospect. It is titled SYSTEM REQUIREMENTS PSD DATA COLLECTION SYSTEM. It also reflects the 'traditional' approach to presenting information for a Prospect data stream transformation project. Detail designs provided by the Vendor typically answer some of the qualifying steps but not all. In this example, step 220, 'Determining the payback' and step 270 "Inquiring about alternative approachees' are not provided.

I appreciate your continued interest and hope that I have answered your questions with an appropriate level of documentation.

Sincerely yours,
Robert Anthon

Robert W. Anthony

781-431-1059

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Exhibit 1

- Simplified Example of Old and Well-known Approach to Qualify a
 Data Stream Transformation Project showing the personnel and activities involved with each of the three design phases conceptual, functional and detail.
- sample TELESHAPER CUSTOMER QUESTIONAIRE

Exhibit 1
Simplified Example of Old and Well-Known Approach To Qualify Data Stream Transformation Project, page 1

<u>Detail</u>		Functional	Conceptual	DESIGN PHASE
Screen layouts, file names, field names, field sizes, interactions, etc.		y Sketch and write up on targeted procedures	<u>ia/</u> Discussion notes	N E DESCRIPTION
Big screen, little screen; Item master file, item ID, Description, Bin ID, Bin quantity, etc.	Start Start No Take item No from Bin? Yes Enter bin, item, and quantity Stop	"When I take an item from the warehouse bin location, I want to use a wireless handheld to tell the computerized inventory system that I took the item."	"I want to change data without walking to a desktop computer screen."	EXAMPLE
Programmer		Sales support technician	Sales person	VENDOR PERSONNEL
Applications programmer or systems administrator		Materials handler or supervisor	Warehouse manager	BUYER PERSONNEL
1-20		N	1 alone plus 2 with technical sales support person	NUMBER OF MEETINGS

(Continued on next page)

Exhibit 1

Simplified Example of Old and Well-Known Approach To Qualify Data Stream Transformation Project, page 2

DESIGN

PHASE DESCRIPTION **EXAMPLE**

Detail (continue Background Not shown

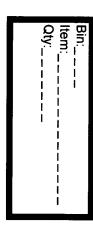
System overview Not shown

Scope of Work Not shown

System components Not shown

Existing application

Transformation Existing Logon, Inventory Transaction, Error Handling and Logoff screen description or printouts (not shown) Portable screen format, description of variable data fields, desired interaction and error handling detailed.



Variable, Size, Type

Bin, 1-4, Alpha/Numeric Item, 15, Alpha/Numeric

Qty, 0-7, Numeric

Interaction

Enter the Bin identification, the Item number and the Quantity taken.

(Must provide background process to automatically update the existing inventory application bin quantities.)

Error Handling

To be determined



TeleShaper Customer Questionaire

The TeleShaper™ server

is a device that sits on your network and emulates the operation of your Legacy applications as if it were an intelligent user. To appear as a normal user to your host (and preclude any changes necessary on your host system), Orchid needs to gather information to configure the TeleShaperTM server properly for your situation. Please answer the following questions to the best of your ability. If you need further information from Orchid to assist you in filling out this form, please email our Technical staff at: support@teleshaper.com.

	Your Name & Title:						
	Your phone number, and email address:						
Gei	neral Host and Application qເ	uestions:					
	of these questions are referring to the host, and horeting and reformatting.)	ost application whose	data s	tream the	TeleShaper server	will be	
	Do you know what type of machine the Host Ser (eg: IBM AS/400, DEC VAX, RS-6000, Aviio						
2. I	Does the host have an IP address? Y N	I	f so, it	is:			
3. V	What's the name of the app. that you are running	g on the host & version	1?				
4. I	s it a custom application?	5. What is it wr	itten ir	1?:			
	s the software provider (commercial, contract, o). Who within your organization provides application		-		ort for this applicat	ion? Y	N
8. 7	Their phone number:	9. Thei	r emai	1:			
10. i	Is this a "green screen" application, or does nterface?	it have a "windows-li	ke"		'GREEN SCREEN	n' □W INDOV	vs
11.	What specific tasks do you want to transform	m?: (eg: Order Entry,) Field Service Data					
	Where do you anticipate the data to perform (eg: Pager, eMail, XML Document, RF Termis Browser, voice system, etc.)						
13.	Do you have this new 'client device' already	y?		_			
14.	How many users do you anticipate will be ut	•	?		· · · · · · · · · · · · · · · · · · ·		
15. N	Does it need to be available 7 days a week, 2	_	_	If not,	what hours must it	be available?	
Clie	ent terminal questions:						
16.	From which type of client do you currently r	run the application?:	[□ PC Othe	□DUMB TE r:	RMINAL"	
17.	What emulation is used to access the host? (eg: VT220, IBM 5250	, etc.):				
18.	If you are running this application from a PC you use to access it? (eg: Attacl			ı, etc.):			
19.	Is your PC/Terminal connected to a network	? Y	N				
20.	What type of network is it?: (eg: Ethernet, T						
21.	Does your PC/Terminal have an IP address?	,	Υ	N	(if so, it is:		
22.	Who within your organization provides netw	vork support?					
23.	Their phone number:		4.	Their en	nail:		

Exhibit 2

-PROJECT REQUIREMENTS DOCUMENT pages 1-8, prepared by Vendor personnel for use as a detail design.

Project Requirements Document

Veterans Health Administration Medication Scan/Three Way Matching

Customer Contact

Tim Egan

Author

Lewis Rompala

Table of Contents

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VARIABLE SIZE TYPE	5
LOG ON SCREEN	6
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PROJECT INFORMATION

Date:

November 1, 1999

Customer Name:

Veterans Health Adminstration

Customer Address:

Atlanta V.A. Medical Center

1670 Clairmont Road Decatur, Georgia 30033

Application Name:

Computerized Patient record System (CPRS)

Application Revision:

Operating System:

Digital Alpha

Operating System Revision: VMS Version 6.1+

Customer Contact:

Tim Egan

Customer IS Contact: Harold Carlisle

Customer User Contact:

Customer Purchasing:

ORCHID SYSTEMS Engineer:

Lewis Rompala (781)431-7446 ex.766

ORCHID SYSTEMS Account Manager: Robert Anthony (781)431-7446 ex. 268

12345678901234567890
2
3
4
5
6
7
8

FORMAT SCREEN

Example of 8 rows X 20 columns screen format.

FUNCTION KEYS
F4 - Exit Available when displayed on Client screen.

Reviewed:	Date:	

ERROR MESSAGES (Scroll Function)

ERROR messages will be read off the host screen in 20 character sections and presented on the handheld directly as reads (see example). The "VVV..." indicates there is more message below. Arrows down, [ENTER] to Continue
Host returns to input field with error. Error Data remains on client screen and the user is prompted for data.

Invalid data entered, (example: alpha in digit field) ScreenShaper will filter data and return to input prompt, leaving invalid data on the client screen and the user is prompted for data.

Host Re-sync Error will return to the top of the transaction, whenever possible.

Reviewed:	 Date:	

VARIABLE	SIZE	TYPE
Active Medication Bed Number Dosage	1 - 20	Printable
Password Patient Name		
Room Number		
Route		
Social Security Number User Id	9	Digits

SYSTEM LOG ON F4

User ID: 12345678 P/W: 12345678

Enter User ID

Enter Password

LOG ON SCREEN

Enter User Id, Password then ScreenShapper connects to Host.

F4 - Ends application

Reviewed:	Date:	

Scan Medications F4
SS: 123456789
Name 1 - 20
Room #:
Bed #:
Scan SS Number
Confirm (Y/N):

Scan Medications F4
----Medication Message

Enter to Continue

SCAN MEDICATIONS

Scan Social Security Number.
Display Social Security Number,
Patient Name, Room Number and Bed
Number.

Confirm:

N - Returns to Scan SS prompt Y - Continues

F4 - Returns to top of the transaction, does not update the host, at the top of transaction returns to Sign on screen.

Display Active Medication, Dosage, and Route.
Scan Medication ID number.
Compare scanned information to Pharmacies information

Correct:

N - Display error message Y - Display Medication Match

Enter to continue.

If more medications:
 go to the Display Active
 Medication Screen.

Else
 Go to the Scan SS prompt.

Reviewed:	Date:	
VCATEMECT:	Date:	

SCREEN ACCEPTANCE:

The screens shown in this document represent the exact screens that ORCHID SYSTEMS will deliver for each transaction listed. After acceptance, changes to these screens must be made using an ORCHID SYSTEMS PRD Change Request Form. Additional services will be quoted as applicable.

Customer: Veterans Administration ORCHID SYSTEMS

By:	By: Lewis Rompala
Title:	Title: Programmer Analyst
Date:	Date: 11/1/1999

Please Fax Signed Document to (781)431-7013

Exhibit 3

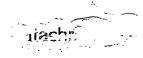
SYSTEM REQUIREMENTS / PSD DATA COLLECTION SYSTEM, pages 2/26 through 26/26. This is a detail design prepared by Prospect personnel.

TO

SYSTEM REQUIREMENTS

PSD DATA COLLECTION SYSTEM

1999,12-02



INTRODUCTION 1.0

Background 1.1

Bocing Military Programs - Wichita Division (MP-WD) is implementing a parts Rotobin system for select parts in the GOLD inventory system. These Rotobin parts will have a barcoded "Part Number" and "Bin Location" on every bin label.

The JCN (Job Control Number), the Part Number information, the Quantity issued, and the mechanic's Social Security Number (Badge Number) will have to be entered into the T30 screen of the GOLD application for every 'Issue' transaction. The Part Number, the Quantity Received and the Bin Location will have to be entered into the T10 screen of the GOLD application for every 'Receipt' transaction. The GOLD inventory management software is a UNIX server based system.

System Requirements 1.2

Boeing MP-WD shall use a combination of RF and hard-wired barcode scanners to read the barcoded information on Rotobin labels (See Attachment A). The RF barcode scanners are intended for use at locations where PC's and hard-wired scanner's are impractical. Once scanned, the barcoded information off of the Rotobin label shall be read into the appropriate GOLD application screen (See Attachments B or C). Once the barcoded data is read into the T10 (Receipt) or T30 (Issue) screen, the user shall be prompted for the "Quantity" to be issued or received. On an 'Issue', once the "Quantity" is entered the user shall be prompted to Scan the mechanic's badge for the barcodedSocial Security Number.

Scope of Work 1.3

The Supplier shall be responsible for the following tasks as part of this project:

- Review transaction process for system implementation.
- Provide ScreenShaper programming for the portable RF terminals to support the identified transaction.

TO

SYSTEM REQUIREMENTS

PSD DATA COLLECTION SYSTEM

- Provide ScreenShaper programming training at the Boeing-Wichita facility for six Boeing people.
- Ensure proper transaction processing between the RF barcode scanners and the GOLD application.
- Post installation support as outlined in the purchase order.

Boeing MP - WD shall be responsible for the following tasks as part of this project:

- Providing all necessary computer access required for developing the ScreenShaper transaction(s).
- Providing a purchased copy of the ScreenShaper Software.
- All associated terminal cabling and installation.
- The various network connections required to complete the task.

FROM : BCS MATERIEL

7814317013

1999,12-02

04:33PM #733 P.04/26

SYSTEM REQUIREMENTS

PSD DATA COLLECTION SYSTEM

2.0 SYSTEM ARCHITECTURE

TO

2.1 Components

Boeing MP - WD has already purchased the ScreenShaper software and has installed it on an 11P 9000, which uses an HP UNIX 10.2 Operating System. The Symbol LRT3840 RF barcode scanners are also already purchased. The Supplier shall be responsible for developing and integrating the ScreenShaper software, so that the Symbol LRT3840 RF barcode scanners and the GOLD application can effectively interact and exchange information via an Ethernet-TCP/IP network as outlined in the following sections.

BOEING MILITARY PROGRAMS – WICHITA DIVISION'S 3.0 **IMPLEMENTATION**

TO

3.1 System Sign-On

Users will be required to sign-on to the ScreenShaper Server System with a Username and Password. Once the Server Username and Password are validated, then the Server Software (ScreenShaper) shall direct the user logon to the GOLD application.

The GOLD application logon shall also require a Username and Password. Once the Username and Password are validated by GOLD, ScreenShaper shall automatically access the T10 Receiving screen or T30 Issue screen depending on the type of transaction that is selected by the user.

3.2 T10 Receipt Transaction

Once the T10 Receiving screen is accessed via ScreenShaper, the user shall be prompted, line item by line item, to Scan the requested fields. The user shall not be required to manually enter any keypad data, except for the "Quantity" of parts to be received.

T30 Issue Transaction 3.3

Once the T30 Issue screen is accessed via ScreenShaper, the user shall be prompted, line item by line item, to Scan the requested fields. The user shall not be required to manually enter any keypad data, except for the "Quantity" of parts to be issued.

Application Error Handling 3.4

The Supplier shall provide error handling routines and an appropriate action for every identified application error in the Problem Resolution section of this FROM :BCS MATERIEL TO : 7814317013 1999,12-02 04:33PM #733 P.06/26

SYSTEM REQUIREMENTS

PSD DATA COLLECTION SYSTEM

document. The system ScreenShaper software shall be designed, so that a user can 'Escape out of' or 'Logoff' of the GOLD application at any point in a transaction.

3.5 Barcode Labeling Requirements

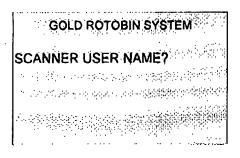
The GOLD Rotobin project does not require any ScreenShaper generated barcode, but the ScreenShaper training shall include training on generating barcoded output out of the ScreenShaper product.

LRT3840 HAND-HELD PROMPTING (JIT) 4.0

4.1 System Sign-on

Users will be required to sign-on to the ScreenShaper System with a User Name and Password. Once the ScreenShaper User name and Password are validated, then ScreenShaper shall direct the user logon to the GOLD application. The GOLD application logon shall also require a User name and Password

SCREEN DISPLAY:



SPECIFICATIONS:

Entry Required: Yes

Default: No

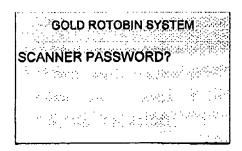
Type/Length: Alpha-numeric/6-8 Validation: Must be lower-case

Comments:

PROCEDURE:

1. Scan or Key In ScreenShaper user name. Press ENTER if keyed.

SCREEN DISPLAY:



SPECIFICATIONS:

Entry Required: Yes

Default: No

Type/Length: Alpha-nmeric/2-15 Must be lower-case Validation: Comments: Cannot be scanned

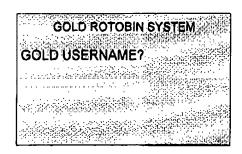
PROCEDURE:

1. Key In the users ScreenShaper Password and press ENTER.

Once the user has entered their ScreenShaper signon the screen will display.

SCREEN DISPLAY:

SPECIFICATIONS:



TO

Entry Required: Yes

Default: No

Type/Length: Char/6-8

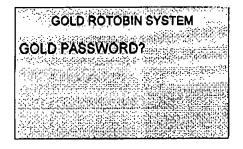
Validation: Comments:

PROCEDURE:

1. Scan or Key In GOLD user name. Press ENTER if keyed.

SCREEN DISPLAY:

SPECIFICATIONS:



Entry Required: Yes Default: No

Type/Length: Char/6-8

Validation: Must be lower-case Comments: Cannot be scanned

PROCEDURE:

Key In GOLD user password and press ENTER.

4.2 Issue or Receipt Menu

Once the GOLD signon has been completed, then the screen will display.

SCREEN DISPLAY:

SPECIFICATIONS:

GC	DLD RO	TOBIN	SYST	ΕM
en legaciónic	SUE	45,65468		
'R' R		Mary day sa magadan ay ilan		
'X' E	XIT			
	430.5			il Preparjajandoj
ENTER	CHOIC	E		

Entry Required: Yes

Default: No

Type/Length: Alpha/1 Char Validation: 'I', 'R' or 'X'

Comments: Perform a check for

'X'

PROCEDURE:

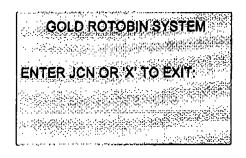
1. Key ln 'l', 'R' or 'X' and Press ENTER.

4.3 Issue Menus (T30)

Once the Transaction Type has been entered, then the screen will display.

SCREEN DISPLAY:

SPECIFICATIONS:



Entry Required: Yes

Default: No

Type/Length: Alphanum/Var.
Validation: 'X' or Valid JCN
Comments: Perform a check for

'X'

PROCEDURE:

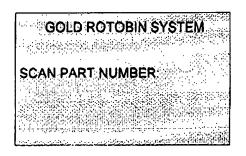
1. Scan in a valid JCN or Key In 'X' and Press ENTER to Exit.

4.3.1 Part Number Issue Transaction

Once a valid JCN has been entered, then the screen will display.

SCREEN DISPLAY:

SPECIFICATIONS:



Entry Required: Yes

Default: No

Type/Length: Alphanum/Var. Validation: Valid Part Number

Comments:

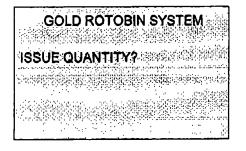
PROCEDURE:

1. Scan or Key In the Part Number. Press ENTER if keyed.

Once a l'art Number is Scanned, then the screen will display.

SCREEN DISPLAY:

SPECIFICATIONS:



Entry Required: Yes

Default: No

Type/Length: Numeric/Variable

Validation:

Comments: If Qty is greater than

ab, then generate order.

PROCEDURE:

1. Key In the Quantity. Press ENTER.

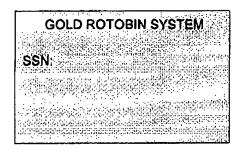
SYSTEM REQUIREMENTS

PSD DATA COLLECTION SYSTEM

Once a Quantity is Keyed in, then the screen will display.

SCREEN DISPLAY:

SPECIFICATIONS:



Entry Required: Yes

Default: No

Type/Length: Alphanum/12 Char

Validation:

Comments: Field consists of a "J" followed by a space and then 10

digits.

PROCEDURE:

Scan in the SSN (Badge Barcode).

4.3.2 Issue Summary Screen Transaction

Once the Social Security Number is scanned in, the screen will display.

SCREEN DISPLAY:

SPECIFICATIONS:

			100000000000000000000000000000000000000
GOLD ROT	VBIN.	2727	
SOLU NO		U • U ,	P4141
La 2014 BERGER BERGER	\$100 to 100 to 1	a Audabay	504038305876583
JCN: RBABL	segre deservi	enamena. C	
	gegerapagag	e usus	3.7 Star Selection
PART#			
			P. N. S. T. S
BACC12345678	390123	456 -	
1		er Obtain	ercadorus estab
IQTY: 12		Gilda Danis	State Same
SSN: 261-2	2 264		
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Laborita practic de paparatica de la casa	pagas Japan	តួនទាំងជាក្ន	Shall de procession de la constantion
ACCEPT TRAN			arakitata da III
I ACCEPT TRAN	ISACT	IONY	(Y/N) ·

Entry Required: Yes Default: No

Type/Length: Alpha/1 Char Validation: 'Y' or 'N'

Comments:

PROCEDURE:

FROM :BCS MATERIEL TO : 7814317013 1999,12-02 04:35PM #733 P.12/26

SYSTEM REQUIREMENTS

PSD DATA COLLECTION SYSTEM

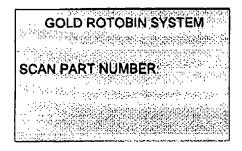
1. Key In a 'Y' to accept the transaction or Key In an 'N' to cancel the transaction, then press ENTER.

4.4 Receipt Menus (T10)

Once the Transaction Type is entered, then the screen will display.

SCREEN DISPLAY:

SPECIFICATIONS:



Entry Required: Yes

Default: No

Type/Length: Alphanum/Var.

Validation:

None

Comments:

PROCEDURE:

1. Scan or Key In a valid Part Number, Press ENTER if keyed.

4.4.1 Part Number Receipt Transaction

Once a valid Part Number has been entered, then the screen will display.

SCREEN DISPLAY:

SPECIFICATIONS:

GOL) RO	TOE	3ĬŃ:	SYS	TE	M
i i i i i i i i i i i i i i i i i i i			geeggs			
						enter) Outpac
QUANTIT	YRE	CE	γEI) .		
, makkabalikip	dajadi _e	diger.	n nann Parasti	diddig:		a ban b
		engisi	landi		idologi Mologia	green)
		'scarr' ru		i piro Persona	graden General	eren a

Entry Required: Yes

Default: No

Type/Length: Num/Var.

Validation:

No

Comments:

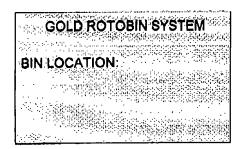
PROCEDURE:

1. Key In the Quantity Received and press ENTER.

Once a 'Quantity Received' has been entered, then the screen will display.

SCREEN DISPLAY:

SPECIFICATIONS:



Entry Required: Yes

Default: No

Type/Length: Alphanum/Var.

Validation: Comments:

PROCEDURE:

1. Scan or Key In a valid Bin Location. Press ENTER if keyed.

4.4.2 Receipt Summary Screen Transaction

Once the Bin Location is scanned in, the screen will display.

SCREEN DISPLAY:

SPECIFICATIONS:

GOLD ROTOBIN SYSTEM

PART#
BACC1234567890123458

QTY: 12
BIN LOC: DWR151

ACCEPT TRANSACTION? (Y/N)

Entry Required: Yes

Default: No

Type/Length: Alpha/1 Char

Validation: 'Y' or 'N'

Comments:

PROCEDURE:

FROM : BCS MATERIEL

: 7814317013

TO

1999,12-02

Ø4:36PM #733 P.14/26

SYSTEM REQUIREMENTS

PSD DATA COLLECTION SYSTEM

1. Key In a 'Y' to accept the transaction or Key In an 'N' to cancel the transaction, then press ENTER.

4.4.3 Receipt Summary Screen Transaction

Once the Summary is displayed and accepted is scanned in, the screen will display.

SCREEN DISPLAY:

GOLD ROTOBIN SYSTEM VOUCHER NUMBER IS: 92993301 PRESS <ENTER> TO CONTINUE

SPECIFICATIONS:

Entry Required: Yes Default: No

Type/Length: Numeric/8 char

Validation: None

Comments:

PROCEDURE:

1. Press ENTER to continue.

5.0 SCREEN MAPPING SPECIFICATIONS

5.1 System Sign-On/Sign-Off

Users will be required to sign-on to the Server System with a Username and Password. Once the Server Username and Password are validated, then the Server Software (ScreenShaper) shall direct the user logon to the GOLD application, where the user will enter a GOLD Username and Password. Once the GOLD logon is completed, ScreenShaper shall navigate through the necessary applications screens, so that it arrives at the T10 Receipt Screen or the T30 Issue Screen.

PROMPT USER INPUT

GOLD ROTOBIN NONE

HPLOGIN: (USERNAME)
PASSWORD: (PASSWORD)
GOLDLOGIN: (USERNAME)

GOLDPASSWORD: (PASSWORD)

I, R or X CHOOSE ONE

The ScreenShaper software shall provide a mechanism for system "LOGOFF" at any point in a transaction.

5.2 Part Receipt Transaction - T10 Screen

Every GOLD Rotobin Part Receipt Transaction will require the users to Scan or Key In the 'PART NUMBER', then manually Key In the 'QUANTITY', and finally Scan or Key In the 'BIN LOCATION'. See Table 1.

5.3 Part Issue Transaction – T30 Screen

Every GOLD Rotobin Part Issue Transaction will require the users to Scan or Key In the JCN number, the 'PART NUMBER', then manually Key In the 'QUANTITY', and finally Scan the mechanic's badge to record their Social Sccurity number (SSN:). See Table 2.

PSD DATA COLLECTION SYSTEM

GOLD Rotobin Part Receipt Transaction

DATA	TYPE/	ENTRY	SOURCE	KEYBOARD
FIELD	LENGTH			COMMAND
		MAIN MENU		
Command Line	Alpha/4 char	'VMAI'	System Generated	<enter></enter>
INV	ENTORY WARE	HOUSE MAINTENANCE	•	
CSB	Alpha/6 char	'GOLDRB'	System Generated	<enter></enter>
Part	Alphanum/var	Valid part number	Barcode Data	<enter> + <f6></f6></enter>
determined. Scree status and then co received quantity	enShaper shall Scar ompare the received and the ord-qty ma on, otherwise the tr	the correct 'order number' ne in this screen for the first orde d quantity to the 'qty-ord' qua atch then ScreenShaper shall ansaction shall be kicked-bac	r that has an 'open' antity. If the process the T10	
order	Alphanum/var	Order number from the 'Order' screen	System Generated	<enter></enter>
line	Alphanum/Var.	The 'line ms-da' portion of the Order number	Barcoded Label	<enter> after the Scan</enter>
recyr	Alpha/1 Char	'R' for Receipt	System Generated	<enter></enter>
part #	Alphanum/Var.	Barcoded Part Number	User	<pre><enter> after a part # input</enter></pre>
q revd	Numeric/Var	Manual entry of Quantity Received	'Keyed In' Data	<enter></enter>
shpdoc	None	None	None	<enter></enter>
fr loc	None	None	Nonc	<enter></enter>
ลพด	Alphanum/Var	Valid Work Order: Y9961	System Generated	<enter></enter>
cond	Numeric/1 char	Condition Code of '2'	System Generated	<enter></enter>
phyRCV	Alpha/2 char	Storckceper's Initials	System Generated	<enter></enter>
carric	None	None	None	<enter></enter>
avail	Alpha/l char	'Y' for Yes	System Generated	<enter></enter>
price	None	None	Nonc	<enter></enter>
laborP	None	None	None	<enter></enter>
revd-e	Alpha/1 Char	'T' for Today's Date	System Generated	<enter></enter>
revd-d	Alpha/l Char	'T' for Today's Date	System Generated	<enter></enter>
tag no	None	None	None	<enter></enter>
bin-lo	Alphanum/Var	Barcoded Bin Location	Barcoded Label	<enter></enter>
remark	None	Nonc	None	<enter></enter>
	None	None	None	<enter></enter>
scrial			None	<enter></enter>

FROM :BCS MATERIEL TO : 7814317013 1999,12-02 04:37PM #733 P.18/26

SYSTEM REQUIREMENTS

PSD DATA COLLECTION SYSTEM

Table 1

GOLD Rotobin Part Issue Screen

DATA	TYPE/	ENTRY	SOURCE	KEYBOARD
FIELD	LENGTH			COMMAND
jen	Alphanum/	Barcoded 'jen' number	Barcode label	<enter> after</enter>
•	5 chars			the Scan
from cond	Numeric/2	02	System Generated	<enter></enter>
	chars			
part number	Alphanume	Boeing part number	Barcoded Label	<enter> after</enter>
,	ric/Var.			the Scan
voucher	Alpha/1	'l' for Issuc	System Generated	<enter></enter>
	Char			
issue qty	Numeric/V	Numeric Issue Quantity	User	<enter> after a</enter>
	ar.			numeric input
remarks	Alphanum/	Employee Badge Number	Scanned Data	<enter></enter>
	12 chars			
reason c	Alpha/1	'N'	System Generated	<enter></enter>
	Char			
doc date	Alpha/1	"I" for Today's Date	System Generated	<enter></enter>
	Char			
1348 rec	Alpha/1	'E'	System Generated	<enter></enter>
	Char			
T30	None	None	None	<enter></enter>
pogsp wo	None	None	None	<enter></enter>
pocap wo	Nonc	None	None	<enter></enter>
asto	Nonc	None	None	<enter></enter>
supp doc	Alphanum/ 12 Chars	Employee Badge Number	Scanned Data	<enter></enter>
signature	Alpha/Var.	Authorizing Mgr (TBD)	System Generated	<enter></enter>
4411 rcm1	Alphanum/	Documentation	System Generated	<enter></enter>
1411101,,,	10 Chars	Description		
4411 rcm2	None	None	None	<enter></enter>
4411 rcm3	None	None	None	<enter></enter>
shop no	Alphanum/	Shop Identifier	System Generated	<enter></enter>
	5 Chars			
ıkr	None	None	Nonc	<enter></enter>
need date	None	None	None	<enter></enter>
work stop	Alpha/1	'N' for No	System Generated	<enter></enter>
"O'TH DIOP	Char			
IF AB IS GREATE		ic qty", PRESS <enter>O</enter>	NCE TO	<enter></enter>
COMPLETE THE	ISSUE TRAN	SACTION.		
		", PRESS <enter> FOUR</enter>	TIMES TO	<enter> X 4</enter>
COMPLETE THE	ISSUE TRANS	SACTION.		

Table 2

6.0 PROBLEM RESOLUTION

6.1 Problem Identification

During the process of reviewing the current system it was attempted to create and identify errors that could occur in a screen shaping environment. This was accomplished by entering erroneous information wherever possible and reviewing the outcome of that information. Based on these outcomes, an appropriate course of action was identified, that should be taken in the event the errors occur during production operation. These errors were identified within the logon procedure and the Rotobin Issuing Transaction. In the event that an error occurs that has not been identified within this section, the ScreenShaper software shall default to the New Issue/Exit screen.

6.2 Logon Process

Zone	Field Name	Error Code	Error Description	Action
ScreenShaper logon	Username	Invalid Username	Username not found	Re-Enter Username
ScreenShaper logon	Password	Invalid Password	Password invalid for username	Re-Enter Username and Password
GOLD logon	Username	Invalid Username	Username not found	Re-Enter Username
GOLD logon	Password	Invalid Password	Password invalid for username	Re-Enter Username and Password

6.3 GOLD Rotobin Issuing

Zone	Field Name	Error Code	Error Description	Action
T30 Issue	Olssue jen Invalidjen		jen can't be found	Display Error
Screen				
T30 Issue	part number	Invalid part	part number can't be found	Display Error
Screen		number		
T30 Issue	quantity	Invalid quantity	Quantity exceeds ab quantity	Display Error
Screen				
T30 Issue	reml	Invalid SSN	SSN not in approved list	Display Error
Screen				

SYSTEM REQUIREMENTS PSD DATA COLLECTION SYSTEM

GOLD Rotobin Receipts 6.4

TO :

Zonc	Field Name	Error Code	Error Description	Action
Order Screen	req number + line ms-da	Invalid order number	Order Number can't be found. Manually Input This Receipt	Display Error Description
Order Screen	qty-ord	Invalid quantity	Invalid quantity for this order. Manually Input This Receipt	Display Error Description
T30 Issuc Screen	order + line	Invalid order number	Order Number can't be found. Manually Input This Receipt	Display Error Description
T30 Issue Screen	part#	Invalid part number	Invalid part number	Display Error Description
T30 Issue Screen	bin-lo	Invalid Bin Location	Bin Location can't be found. Manually Input This Receipt	Display Error Description

SYSTEM REQUIREMENTS

PSD DATA COLLECTION SYSTEM

ATTACHMENT A

(22L) RACK #: DRUR3



(D) DURNTITY: 10



(IP) PART #: D-150-0169



(22L) RRCK #: DRUR3



(Q) QUANTITY: 10



(IP) PART #: D-150-0169



SYSTEM REQUIREMENTS PSD DATA COLLECTION SYSTEM

ATTACHMENT B

ተለለ: 20.33=====	O ISSUE TO WIP - CR	EATE NO DOCUME	NT +	
+issue			Prem:	
Ajon :		reason c:	noun:	
from csb :		doc date:	nsn :	
from cond:		1348 rec:	um :	
part no. :		T30 wo:	make:	
serial no:		pogfp wo:	sour:	
voucher :		pocap wo:	errc:	
issue qty:		afto :	reor:	
remarks :		• •	sl :	ab:
+4411				
Baupp doc :	shop no	:	tkr :	
del loc :	pca log	:	need date:	
signature:			work stop:	
4411 rem1:				
rem2:				
rem3:				
+pr				
Cpr remark:				
:		•		
:				
1				
F8 - System Inqui	irv			

SYSTEM REQUIREMENTS

PSD DATA COLLECTION SYSTEM

ATTACHMENT C

order: line: recor: part #: q rood: shpdoc: fr loc: awo : remork: serial:	prėv:	cond : phyRCV: carrie: avail: price : laborP: rcvd-c: rcvd-d: tag no: bin-lo:	Prem: csb: noun: nsn: um : PNon: ordn: rcvd: duc : make: src: eric:
SOS BOARD	seq jcn	qty-req qty iss pr	ws voucher need dat cab
ISSUE: STOCK:			
4411 (Y/N) : Y		•	
order number	F8-ing		

PSD DATA COLLECTION SYSTEM

ATTACHMENT D

SB	KC0001 -	PCA5	6	NSN :582	1-01-103-	8155	C1	le:102	prime:
	5821~01-1			SMRC: P	m/b:B	u/m:	ea gi	le:44	Bec :
	CONTROL, F		SET	ERRC:T					
				+whse	-capg				capgf
GFP pr	1664.79			Acct Bal:			Suspe		
CAP pr				Receipts:			Serve		
lab pr	: . 00			Turn-ins:	41.		Unser		
1 G009	1			Reloc In:	,	1 .	Repai		
freeze	1			TempTrIn:			Disp.		
ompa .	:			Issues :			Disp-		
cur ro		Q	РЛР СНК	Shipment:			Ship		
cur sl	: O	0	4/12/99	Scrap :		1 -	Inact		
prv ro				Dispostn:		1 9	Inact	LU:	
prv sl				RelocOut:		1	OIT OU	ıt:	
BinB1:		:S	T4 :	ImpTrOut:		1	1IT Ir) :	
B2:	ΤŹ	2 :	T5:	On-order:					
B3:			T6:	Last Phy:		1 н	fp wks	st:	

UP-toggle:: F1-next,F2-prev,F3-cond,F4-tran,F5-insp,F6-ord,FLD-nsn

SYSTEM REQUIREMENTS

PSD DATA COLLECTION SYSTEM

ATTACHMENT E

13:00:34		req number lin	ne qty-ord qty-due -da date-ord date-due
1 KC0001 5821-01-103-8155		EZ9428-9050 M1	
F 90504011 2 кс0001 5821-01-103-8155 90504011	RGI	YG437 EZ9428-9081 M1(YG437	02/19/99 03 1 03/22/99 04/03/99

CURR:000001 LAST:000001 F1-next, F2-prev, F3-more, F4-1stP, F5-lastP

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